

Due: by end of class
or

Friday during advisory.

Name: _____

Date: _____

Unit 6

HW grade:
8

Lesson 1-3

Review
Problems

* You will turn this packet in, to be checked
for accuracy. Use your notes! *

Compare / Contrast

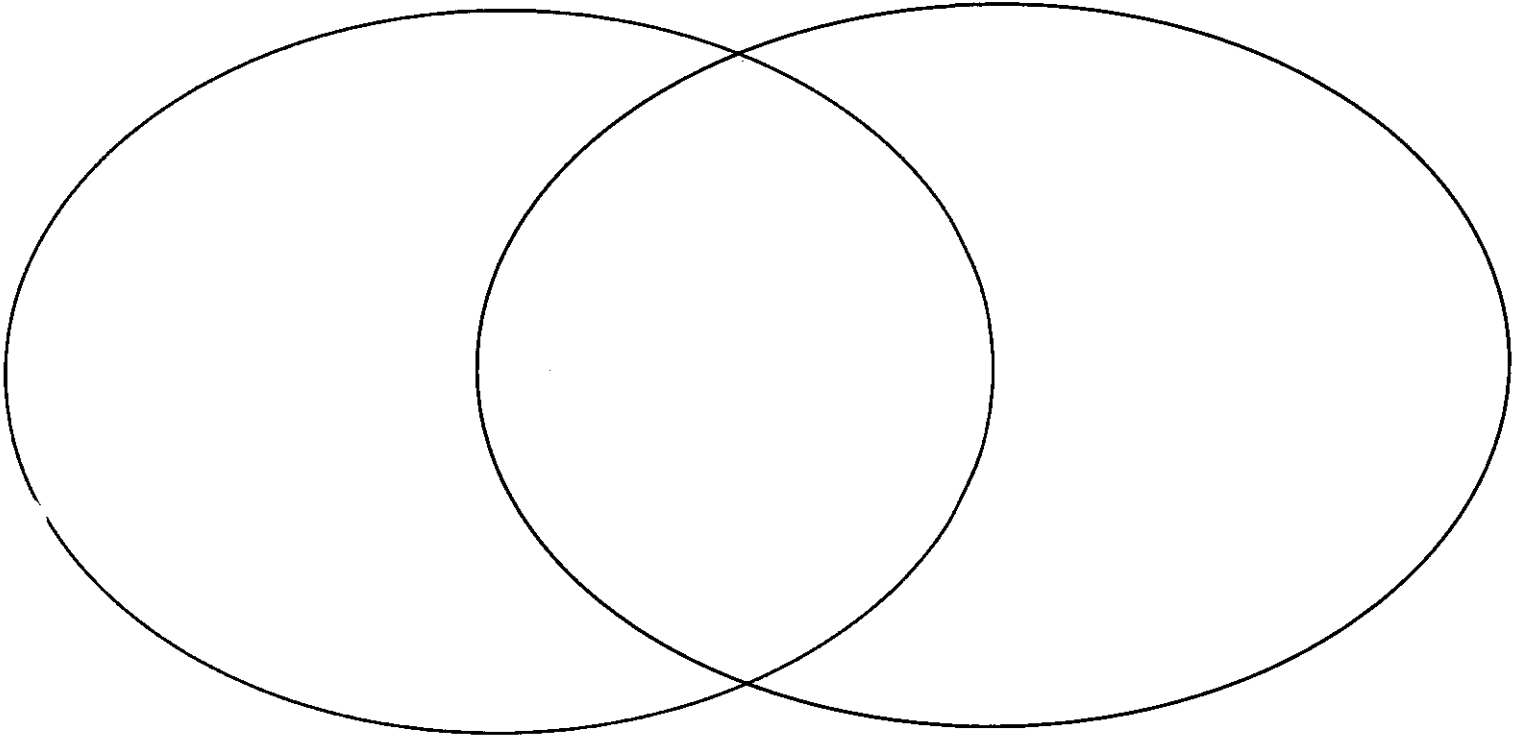
Given the following two problems, use the Venn Diagram to organize your thoughts on how these problems are alike and different then write a paragraph summarizing your thoughts. Consider the scenario, the information given, the information needed to solve and the method of solving used. You may need to solve each problem to clearly see similarities and differences.

Problem A:

The ratio of used cars to new cars on the road is 5 to 2. If Carly observes 35 used cars on the road, how many new cars are on the road?

Problem B

The ratio of used cars to new cars on the road is 5 to 2. If Carly observes 35 cars on the road, how many new cars are on the road?

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page.

Kathryn, Leigh, and Trina are all trying the same problem.

The ratio of blue to grey shirts is 5 to 2. There are 42 students on the bus. How many are wearing grey shirts?

Kathryn		
B	G	Total
5	2	7
10	4	14
15	6	21
20	8	28
25	10	35
30	12	42

12 grey

Leigh		
b	R	A
5	21	105
2	21	42

105

Trina		
b	R	A
5	2	37
7	35	42

37 grey

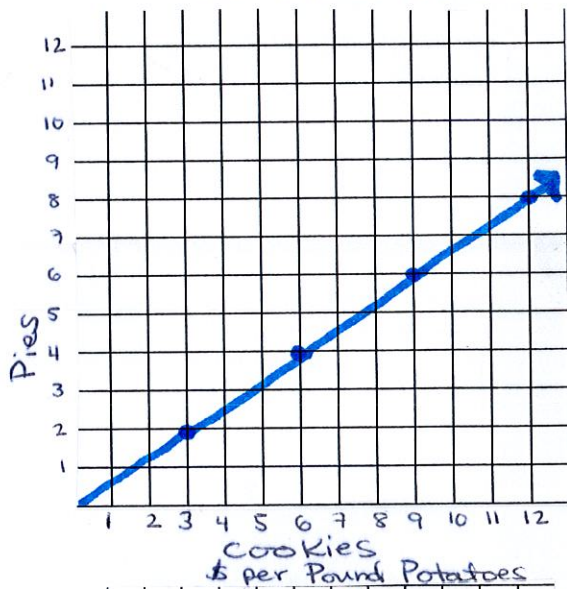
1. Who is correct? Justify your answer

2. Explain why the other two girls are incorrect. What mistakes did they make?

Equation \rightarrow What do I do to x to get to y ?

For each of the following graphs, write the ratio being shown and the equation that was used to create the graph. Ratios should be fully reduced and include labels.

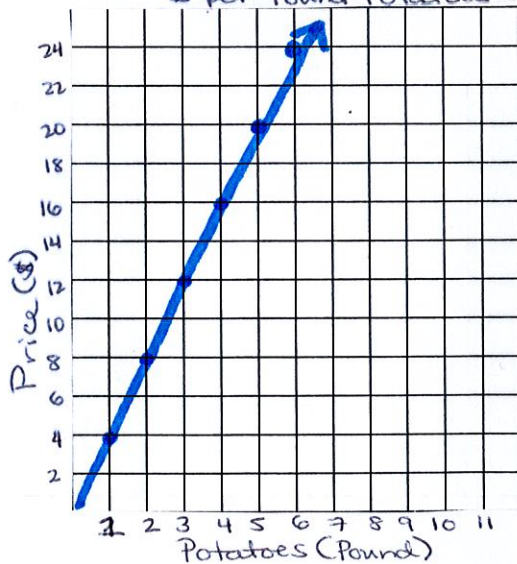
Ratio Cookies to Pies



1 A. Ratio = _____

B. Equation = _____

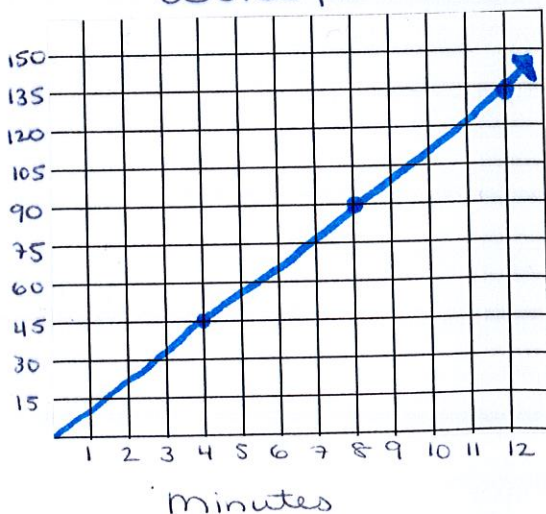
Ratio Cookies to Pies



2 A. Ratio = _____

B. Equation = _____

Words per minute



3 A. Ratio = _____

B. Equation = _____

Trader Joe's vs. Harris Teeter

This past weekend, Mrs. Pike noticed that Harris Teeter was selling asparagus for \$4 per pound while Trader Joe's was selling asparagus in sealed packages for \$2.50 for a package of 12 oz.

A. What is the price per oz for each?

Show your work below. Round to the nearest cent if necessary.

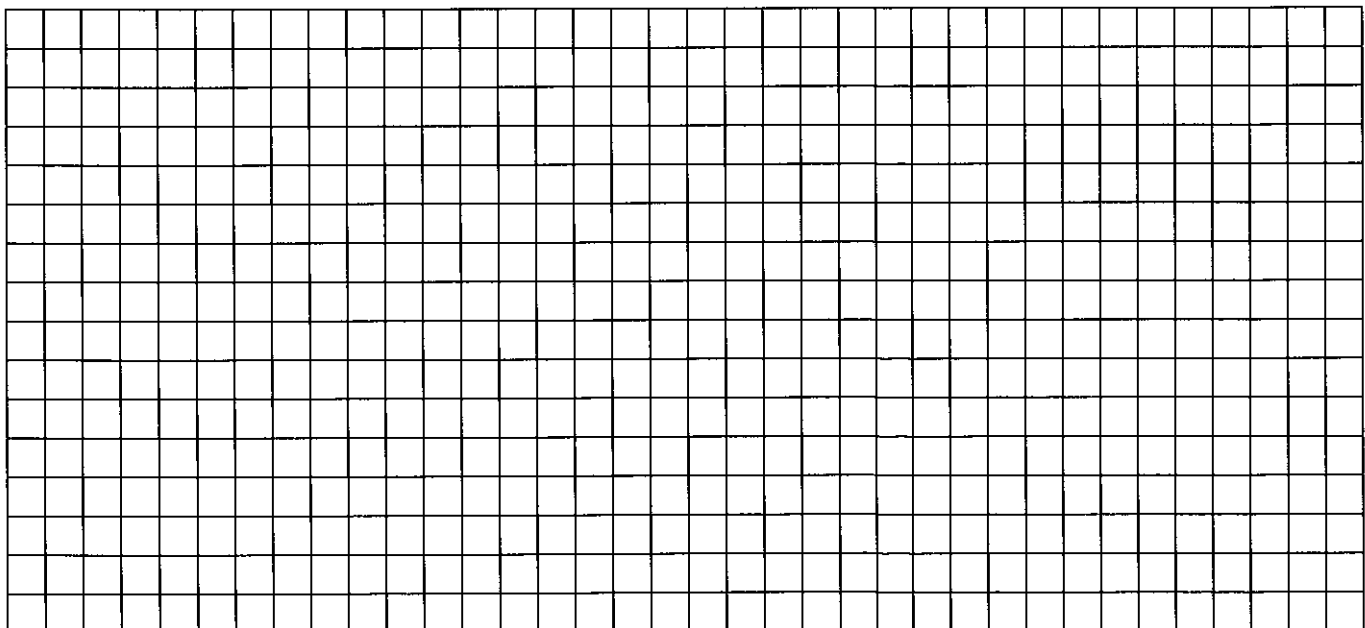
Harris Teeter: _____

Trader Joe's: _____

At Harris Teeter, you can purchase any amount of asparagus. At Trader Joe's you are limited to the packages of 12 oz each; you cannot take part of a package.

How do you have to graph these differently based on the above condition?

Graph the two rates on the same graph. Use a different color for each grocery store. Be sure to include labels for your axis and a title for your graph.



extra credit (!) + ___/2

Two video stores are competing for business in a small town.

Vivian's Videos offers a membership deal where you pay a fee of \$8 a month to get every rental for \$2. Delilah's DVDs does not have a membership fee and charges \$4 a video.

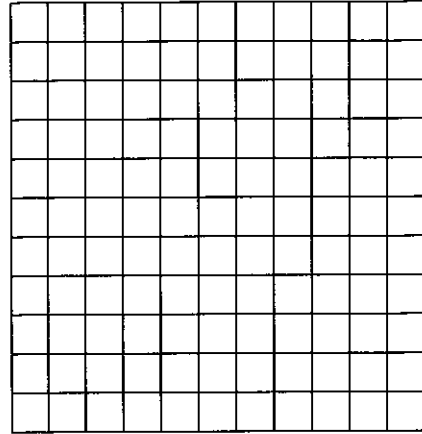
Fill in the tables below to show the price per video at each store then graph your data below. Don't forget to label your axis and give your graph a title. Graph each store in a different color.

Vivian's Videos

# videos	\$
0	8
1	
2	
3	
4	
5	

Delilah's DVDs

# videos	\$
0	0
1	
2	
3	
4	
5	



Write an equation for each store.

Vivian's Videos: _____

Delilah's DVDs: _____

If a family rents 3 movies a month, where should they go? Justify your answer.

If a family rents 4 movies a month, where should they go? Justify your answer.

If a family rents 5 movies a month, where should they go? Justify your answer.
